

May 24, 2000

MEMORANDUM

SUBJECT: **Propargite** (097601) Reregistration Case No. 0243. Revised Anticipated Residues and Acute, Chronic, and Cancer Dietary Exposure and Risk Analyses for the HED Human Health Risk Assessment. DP Barcode D266001.

FROM: Thurston G. Morton, Chemist
Reregistration Branch 4
Health Effects Division (7509C)

THROUGH: Michael Doherty, Chemist
Manying Xue, Chemist
Dietary Exposure Science Advisory Council

and

Susan V. Hummel, Branch Senior Scientist
Reregistration Branch 4
Health Effects Division (7509C)

TO: Jacqueline McQueen/Robert McNally
Special Review Branch
Special Review & Reregistration Division (7508W)

Action Requested

Revise the anticipated residues and acute, chronic, and cancer dietary exposure and risk analyses for propargite (097601) incorporating comments from Uniroyal which the Agency determined were applicable. Anticipated residues and dietary exposure analyses were calculated in a previous memorandum (T. Morton, 1/3/2000, D258909) for the chemical propargite for use in acute and chronic dietary exposure assessments. Propargite [2-(p-tert-butylphenoxy)cyclohexyl-2-propynyl sulfite] is a non-systemic acaricide and is currently registered for food/feed uses on a variety of field, fruit, and vegetable crops.

Executive Summary

- Estimated acute dietary exposure is below HED's level of concern for all female subpopulations at the 99.9th percentile. Use of PDP monitoring data, field trial data, and calculated livestock ARs results in a risk estimate of 2 % of the acute PAD (% aPAD) for the subpopulation females (13-50 years).
- Estimated chronic dietary exposure is below HED's level of concern. Use of PDP monitoring data, field trial data, and calculated livestock ARs results in a maximum risk estimate of <1 % of the chronic PAD (% cPAD) for the U.S. Population and all subpopulations.
- Cancer dietary risk estimate for propargite is 1.2×10^{-6} . Results of the analyses indicate potential residues in milk contribute to estimated exposure and risk. A sensitivity analysis was performed by inserting zeroes for the milk commodities resulting in a cancer dietary risk estimate of 1.0×10^{-6} .

Toxicological Information

Memoranda providing details of relevant toxicological information include the HIARC report dated 6/3/99, the Cancer Peer Review Committee report dated 1/23/92, Revised Q1* Memorandum dated 11/23/99, Propargite Toxicology Chapter (S. Shallal, D250256, 9/9/99) and the FQPA Safety Factor Committee report dated 8/9/99.

The acute and chronic FQPA safety factors of 10X were removed (see FQPA Safety Factor Document, 8/9/99). A reference dose (RfD) which includes the FQPA safety factor (10X, 3X or 1X) is defined as the Population Adjusted Dose (PAD). Therefore, the acute and chronic RfDs are equivalent to the acute and chronic PADs, respectively. Doses and endpoints for dietary risk assessment are presented in Table 1.

Table 1. Propargite: Toxicological Doses and Endpoints for Dietary Risk Assessment.

EXPOSURE SCENARIO	NOAEL (mg/kg/day) Uncertainty Factors ¹	ENDPOINT	STUDY	RfD/PAD ² (mg/kg/day)
Acute Dietary-females 13-50 yrs old	NOAEL=8 mg/kg/day UF = 100 FQPA = 1X	Increased incidence of fused sternebrae.	Developmental Toxicity in Rabbits 41336301	aRfD = 0.08 aPAD = 0.08
Acute Dietary (general population)	NOAEL= N/A UF = N/A	No relevant single exposure endpoint was identified.	N/A	N/A
Chronic Dietary	NOAEL = 4 UF = 100 FQPA = 1X	Decreased body weight / body weight gain and increased mortality.	Chronic Feeding and Carcinogenicity in Rats 41750901	cRfD = 0.04 cPAD = 0.04
Cancer	$Q_1^* = 2.01 \times 10^{-1}$ (mg/kg/day) ⁻¹	Increase in the incidence of undifferentiated sarcoma of the jejunum in males and females	Sprague-Dawley rats	NA

NOAEL = no observable adverse effects level; LOAEL = lowest observable adverse effects level.

¹ The conventional uncertainty factor of 100X includes 10X for interspecies extrapolation and 10X for intra-species variability.

² RfD = NOAEL/UF; PAD = RfD/FQPA SF.

Consumption Data

HED conducts dietary risk assessments using the Dietary Exposure Evaluation Model (DEEM™), which incorporates consumption data generated in USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1989-1992. For acute dietary risk assessments, the entire distribution of single day food consumption events is combined with either a single residue level (deterministic analysis, risk at 95th percentile of exposure reported) or a distribution of residues (probabilistic analysis, referred to as "Monte Carlo," risk at 99.9th percentile of exposure reported) to obtain a distribution of exposure in mg/kg/day. For chronic dietary risk assessments, the three-day average of consumption for each sub-population is combined with residues in/on commodities to determine average exposure in mg/kg/day.

Residue Information

Tolerances for residues of propargite in/on food and feed commodities are currently established under 40 CFR §180.259(a) and (b), §185.5000, and §186.5000(a) and are expressed in terms of propargite *per se*. The HED Metabolism Assessment Review Committee (N. Dodd, D256182, 6/7/99) concluded that propargite residues to be regulated in plants, animals, and rotational crops include the parent only. ARs were originally presented and accepted by the HED ChemSAC (12/15/99). The Biological

and Economic Analysis Division (OPP/BEAD) provided updated usage information for propargite (Jihad Alsadek, 5/22/00). Not all of the commodities listed on the Qualitative Usage Analysis are registered at the present time, therefore they were not included in the dietary exposure analysis. The weighted average of percent crop treated was used for estimating chronic dietary exposure and an estimated maximum percent crop treated was used for estimating acute dietary exposure. The usage data are provided as Attachment 1; inclusion of the data in dietary exposure analyses is discussed below. For all analyses, the $\frac{1}{2}$ Limit of Detection (LOD) value was a weighted average of all laboratory limit of detections. Residue distribution files (RDFs) were created incorporating zeroes, $\frac{1}{2}$ LOD's, and residue detections. These RDFs were used in the acute probabilistic dietary analysis.

Almonds and Walnuts

BEAD estimates average % crop treated (CT) and maximum % CT of 35% & 59 % CT for almonds and 25%/46 % CT for walnuts. Field trial data were used for almonds from MRID 40615503 and 44698601. The field trial data from MRID 00112345 were used for walnuts. All food forms of almonds are considered to be partially blended. All food forms of walnuts are also considered to be partially blended except for walnut oil which is considered blended. There were 6 residue values incorporated into a residue distribution file (RDF) for almonds and 10 residue values for walnuts. A point estimate of 0.025 ppm was used for the blended food form walnut oil. There were no processing data available so DEEM™ default factors were used.

Sweet Corn

BEAD estimates 1 % CT/1 % CT for sweet corn. Field trial data were used for sweet corn from MRIDs 00043251. Food forms for sweet corn considered to be not blended are uncooked, cooked, baked, and boiled. Food forms for sweet corn considered to be partially blended are frozen and canned. There were 4 residue values incorporated into a residue data file (RDF). There were no processing data available so DEEM™ default factors were used.

Field and Pop Corn

BEAD estimates 1 % CT/1 % CT for field corn. Field trial data were used for field corn from MRIDs 41389001, 4119701, and 40615512. All food forms for field and pop corn are considered to be blended. There were 21 residue values incorporated into a point estimate of 0.025 ppm. The registrant submitted an adequate corn processing study which showed an average processing factor of 0.44X for starch, 1.1X for meal, 1.6X for flour, and 5.1X for refined oil processed from corn grain by wet milling (C. Swartz, 2/20/96, D220010). The first step in high fructose corn syrup (HFCS) processing is extracting the starch from the corn grain. Therefore, the highest processing factor possible for HFCS would be 0.44X. The average processing factor for corn aspirated grain fractions was 5.0X (J. Stokes, 2/22/00, D239720).

Dry Beans

BEAD estimates 2 % CT/4 % CT for dry beans. Field trial data were used for dry beans from MRIDs 00038036 and 41848602. All food forms for dry beans are considered to be blended. There were 6 residue values incorporated into a point estimate of 0.09 ppm.

Hops

BEAD estimates 5% CT/8 % CT for hops. Field trial data were used for dried hops from MRIDs 40615502, 41942401 and Accession No. 112358. All food forms for hops are considered to be blended. There were 35 residue values incorporated into a point estimate of 14.00 ppm. The registrant submitted an adequate hops processing study which showed an average processing factor of 0.0007X for beer processed from dried hops (C. Swartz, 4/8/93, D183283). Therefore, taking into account that beer contains 0.17 % hops, the adjustment factor 1 in DEEM should be set to 0.41.

Tea

BEAD estimates 6% CT for tea. Field trial data were used for dried tea from MRIDs 43905901, 44039201, 44472201. All tea food forms are considered to be blended. There were 22 residue values incorporated into a point estimate of 4.03 ppm. The registrant submitted an adequate tea processing study which showed an average reduction factor of 0.052X for brewed tea processed from fresh tea (C. Swartz, 8/21/95, D214968 and N. Dodd, 11/2/98, D227523).

Mint

BEAD estimates 22% CT/34 % CT for mint. Field trial data were used for mint oil from MRIDs 00138428 and 00112361. All mint food forms are considered to be blended. Both spearmint oil and peppermint oil were sampled. There were 3 residue values incorporated into a point estimate for each commodity. The point estimate value for peppermint/peppermint oil is 2.73 ppm and for spearmint/spearmint oil is 4.73 ppm. There were no processing data available for spearmint or peppermint so DEEM™ default factors were used for both of these commodities.

Peanuts

BEAD estimates 1% CT/3 % CT for peanuts. Field trial data were used for peanuts from MRID 00044291. All peanut food forms are considered to be blended. There were 4 residue values incorporated into a point estimate of 0.1 ppm. The registrant submitted an adequate peanut processing study which showed an average concentration factor of 2.7X for refined peanut oil processed from peanut nutmeats (C. Swartz, 2/20/96, D220005). Default DEEM™ processing factors were used for other processed food forms.

Grapes

BEAD estimates 41 % CT for grapes processed into raisins, 12 % CT for grapes used for table grapes, and 7 % CT for grapes processed into wine. Extensive PDP monitoring data are available for grapes. All grape food forms are considered to be partially blended. Grape processing studies have indicated that propargite concentrates in raisins by an average concentration factor of 1.76X (C. Swartz, 1/27/95, D204810). Propargite *per se* reduced in grape juice by a factor of 0.19X (E. Zager, 11/19/91, D167207). There were 1214 PDP samples of grapes with 42 detects. The registrant submitted an adequate wine processing study which showed a reduction factor of 0.022X for wine processed from fresh grapes (T. Morton, 8/25/99, D257466). There were 1214 samples of grapes with 42 detects incorporated into an RDF for grapes.

RAC	#Detects/#Sampled	% Detects	$\frac{1}{2}$ LOD (ppm) weighted average	Total of Detects (ppm)
Grapes	42/1214	3.5	0.016	9.225

Cotton

BEAD estimates 2% CT/3 % CT for cotton. Field trial data were used for cottonseed from MRIDs 30794, 94938, 131893, and 42766109. Labels specify a 50 day PHI. Residue values from 40 to 58 day PHI field trials were used. All cotton food forms are considered to be blended. There were 21 residue values incorporated into a point estimate of 0.055 ppm. Propargite reduced in processed fractions of cottonseed meal (0.01X) and cottonseed refined oil (0.2X) (C. Swartz, 4/5/95, D213686).

Sorghum

BEAD estimates 1% CT/1 % CT for sorghum. Field trial data were used for sorghum from MRIDs 00038036 and 43847901. Labels specify a 60 day PHI. Residue values from up to 67 day PHI field trials were used. All sorghum food forms are considered to be blended. There were 4 residue values incorporated into a point estimate of 0.21 ppm.

Citrus

BEAD estimates 2% CT/7 % CT for oranges, 2% CT/4% CT for grapefruit, and 1% CT/1% CT for lemons. Extensive PDP monitoring data are available for oranges and orange juice, which were translated to grapefruit/grapefruit juice and lemon/lemon juice. Adjustment factor 1 in DEEM® for citrus juices was set to 1 and the factor for citrus juice concentrates was adjusted accordingly to preserve the ratio between juice and juice concentrate in DEEM™. Citrus non-blended food forms include peeled fruit-uncooked and cooked. Citrus partially blended food forms include peel-all food forms, peeled fruit-canned, juice, and juice concentrate. There were 1184 PDP samples of oranges with 13 detects and 692 PDP samples of orange juice with no detects both incorporated into separate RDFs. Propargite was not found to concentrate in citrus dried pulp (E. Zager, 11/19/91, D167207).

RAC	#Detects/#Sampled	% Detects	½ LOD (ppm) weighted average	Total of Detects (ppm)
Oranges	13/1184	1.1	0.041	1.433
Orange Juice	0/692	0	0.027	0

Potatoes

BEAD estimates 2% CT/6 % CT for potatoes. Extensive PDP monitoring data are available for potatoes. Potato non-blended food forms include white-peeled uncooked, cooked, baked, boiled, fried; white-whole uncooked, cooked, baked, boiled, fried; and white-peel only (all food forms). Potato partially blended food forms include white-peeled canned, frozen; and white-whole canned, frozen. Potato blended food forms include white-dry. Processing data for the food form potatoes/white-dry showed no concentration or reduction (1X) (C. Swartz, 1/23/96, D218717). There were 707 PDP samples of potatoes with 0 detects.

RAC	#Detects/#Sampled	% Detects	½ LOD (ppm) weighted average	Total of Detects (ppm)
Potato	0/707	0	0.018	0

Nectarines

BEAD estimates 39% CT/79% CT for nectarines. Extensive PDP monitoring data are available for peaches (registered at the time of PDP monitoring) which were translated to nectarines. Peach use has been canceled but nectarine use is still being supported. All nectarine food forms are considered to be not blended. The PDP monitoring data was decomposed. The mean of the PDP monitoring data was 0.40 ppm with a standard deviation of 0.29. The “n” used for correcting the standard deviation was 23. There were 691 PDP samples of peaches with 132 detects.

RAC	#Detects/#Sampled	% Detects	$\frac{1}{2}$ LOD (ppm) weighted average	Total of Detects (ppm)
Nectarines	132/691	19.1	0.032	52.859

Meat, Milk, Poultry, & Eggs

Data from the feeding study (P. Deschamp, 5/15/92, D171414) were used to create RDFs for milk and animal tissues. Dietary burdens used for calculation of animal tissue anticipated residues for acute and chronic dietary analyses are shown in Tables 2 and 6. Feeding levels of the cattle feeding study were 50, 150, and 500 ppm. The nature of the residue in poultry study (R. Perfetti, 6/1/90, CBRS Nos. 6238, 6316 and 6414) was used to calculate poultry tissue and egg anticipated residues. All milk food forms are considered to be partially blended.

Table 2. Propargite Acute Maximum Realistic Dietary Burden.

Feed Commodity	% Dry Matter	% Diet	Anticipated Residue (ppm)	Dietary Contribution (ppm)
Beef Cattle				
Citrus dried pulp	91	20	4.0	0.88
Sorghum grain	86	50	0.21	0.12
Sorghum forage	35	30	4.1	3.51
Total		100		4.51
Dairy Cattle				
Almond hulls	90	10	35.9	3.99
Corn grain	88	40	0.03	0.01
Sorghum forage	35	50	4.1	5.86
Total		100		9.86
Poultry				
Corn grain	NA	20	0.03	0.01
Sorghum grain	NA	80	0.21	0.17
Total		100		0.18
Swine				
Sorghum grain	NA	80	0.21	0.17
Sorghum AGF	NA	20	0.21	0.04
Total		100		0.21

^a (0.03 ppm X 5.0X concentration factor)

Table 3. Cattle Acute Anticipated Residues.

Tissue	50 ppm Feeding Level (11X)	150 ppm Feeding Level (33X)	500 ppm Feeding Level (111X)	Cattle Acute AR (avg.)
Fat	0.128/11=0.012	0.69/33=0.021	Not used	0.0165 ppm
Muscle	0.013/11=0.0012	0.028/33=0.0008	0.14/111=0.0013	0.0033 ppm
Milk	Did not plateau.	0.018/15=0.0012*	Not used	0.0012 ppm
Liver/Kidney	0.005/11=0.0005	0.028/33=0.0008	0.327/111=0.0029	0.0014 ppm ^a

^aUse for liver, kidney, meat byproducts, and other organ meats for beef, goat, horses, sheep, and veal.

*The 150 ppm feeding level represented 15x the dairy dietary burden.

Table 4. Swine Acute Anticipated Residues based on residue data from the ruminant feeding study.

Tissue	50 ppm Feeding Level (240X)	150 ppm Feeding Level (710X)	500 ppm Feeding Level (2400X)	Swine Acute AR (avg.)
Fat	0.128/240=0.0005	0.69/710=0.001	Not used	0.0008 ppm
Muscle	0.013/240=0.00005	0.028/710=0.00004	0.14/2400=0.00006	0.00005 ppm
Liver/Kidney	0.005/240=0.00002	0.028/710=0.00004	0.327/2400=0.00014	0.00007 ppm ^b

^bUse for liver/kidney, meat byproducts, and other organ meats for pork.

Table 5. Poultry Acute Anticipated Residues based on residue data from the poultry metabolism study.

Tissue	341 ppm Dosing Level
Fat	0.18/341 * 12.57 = 0.0066 ppm
Muscle	0.18/341 * 4.08 = 0.0022 ppm
Liver	0.18/341 * 30.67 = 0.016 ppm
Kidney	0.18/341 * 17.97 = 0.0095 ppm
Egg white	0.18/341 * 1.15 = 0.0006 ppm
Egg yolk	0.18/341 * 2.28 = 0.0012 ppm
Whole egg	0.7(0.0006) + 0.3(0.0012) = 0.0008 ppm

Table 6. Propargite Chronic Average Realistic Dietary Burden.

Feed Commodity	% Dry Matter	% Diet	Average Residue (ppm)	Percent Crop Treated	Dietary Contribution (ppm)
Beef Cattle					
Citrus dried pulp	91	20	2.17	2	0.0095
Corn grain	88	45	0.03	1	0.0002
Sorghum forage	35	35	2.3	1	0.023
Total		100			0.033
Dairy Cattle					
Almond hulls	90	10	21.7	35	0.84
Corn grain	88	30	0.03	1	0.0001
Sorghum forage	35	40	2.3	1	0.026
Corn AGF	85	20	0.15 ^a	1	0.0004
Total		100			0.87
Poultry					
Corn grain	NA	20	0.03	1	0.00006
Sorghum grain	NA	80	0.21	1	0.0017
Total		100			0.0018
Swine					
Sorghum grain	NA	80	0.21	1	0.0017
Sorghum AGF	NA	20	0.21	1	0.0004
Total		100			0.0021

^a (0.05 ppm X 5.0 concentration factor)

Table 7. Cattle Chronic Anticipated Residues.

Tissue	50 ppm Feeding Level (1500X)	150 ppm Feeding Level (4500X)	500 ppm Feeding Level (15000X)	Cattle Chronic AR (avg.)
Fat	0.128/1500=0.00009	0.69/4500=0.00015	Not used	0.00012 ppm
Muscle	0.013/1500=0.000009	0.028/4500=0.000006	0.14/15000=0.000009	0.000008 ppm
Milk	Did not plateau.	0.018/170=0.0001*	Not used.	0.0001 ppm
Liver/Kidney	0.005/1500=0.000003	0.028/4500=0.000006	0.327/15000=0.00002	0.00001 ppm ^a

^aUse for liver, kidney, meat byproducts, and other organ meats for beef, goat, horses, sheep, and veal.

*The 150 ppm feeding level represented 170x the dairy dietary burden.

Table 8. Swine Chronic Anticipated Residues based on residue data from the ruminant feeding study.

Tissue	50 ppm Feeding Level (24000X)	150 ppm Feeding Level (71000X)	500 ppm Feeding Level (240000X)	Swine Chronic AR (avg.)
Fat	0.128/24000=0.000005	0.69/71000=0.0000097	Not used	0.000007 ppm
Muscle	0.013/24000=0.0000005	0.028/71000=0.0000004	0.14/240000=0.0000006	0.0000005 ppm
Liver/ Kidney	0.005/24000=0.0000002	0.028/71000=0.0000004	0.327/240000=0.000001	0.0000005 ppm ^b

^bUse for liver/kidney, meat byproducts, and other organ meats for pork.

Table 9. Poultry Chronic Anticipated Residues based on residue data from the poultry metabolism study.

Tissue	341 ppm Dosing Level
Fat	0.0018/341 * 12.57 = 0.00007 ppm
Muscle	0.0018/341 * 4.08 = 0.000022 ppm
Liver	0.0018/341 * 30.67 = 0.00016 ppm
Kidney	0.0018/341 * 17.97 = 0.00009 ppm
Egg white	0.0018/341 * 1.15 = 0.000006 ppm
Egg yolk	0.0018/341 * 2.28 = 0.000012 ppm
Whole egg	0.7(0.000006) + 0.3(0.000012) = 0.000008 ppm

Table 10. Summary of Propargite Residue Information and Dietary Exposure Analyses Input.

Commodity/Reassessed Tolerance (ppm)	% Crop Treated Ave.	% Crop Treated Max.	Data Source	Commodity Classification	Food Forms	Acute Residue Distribution File (RDF)	Acute AR (%CT not inc.)	Chronic AR (%CT not inc.)
Almonds/0.1	35	59	FT	PB	All food forms	6NZ, 4Z	NA	0.042
Walnuts/0.1	25	46	FT	PB	Uncooked, cooked, baked	10NZ, 12Z	NA	0.025
				B	Walnut oil	NA	0.025	0.025
Sweet Corn/0.1	1	1	FT	NB	Uncooked, cooked, baked, boiled	4NZ, 396Z	NA	0.05
				PB	Frozen, canned	4NZ, 396Z	NA	0.05
Field Corn & Pop Corn/0.1	1	1	FT	B	All food forms	NA	0.025	0.025
Dry Beans/0.2	2	4	FT	B	All food forms	NA	0.09	0.09
Dried Hops/30	5	8	FT	B	All food forms	NA	14.0	14.0
Mint/50	22	34	FT	B	All food forms	NA	Peppermint oil 2.73 Spearmint oil 4.73	Peppermint oil 2.73 Spearmint oil 4.73
Peanuts/0.1	1	3	FT	B	All food forms	NA	0.1	0.1
Grapes/10	40 raisins 12 table grapes 7 wine	PDP	PB	All food forms	42NZ, 456@0.016, 716Z raisins 42NZ, 104@0.016, 1068Z table grapes 42NZ, 43@0.016, 1129Z wine grapes	NA	0.014* 0.009* 0.008*	
Cottonseed/0.1	2	3	FT	B	All food forms	NA	0.055	0.055
Sorghum/5	1	1	FT	B	All food forms	NA	0.21	0.21
Oranges/10	2	7	PDP (Oranges)	NB	Peeled fruit-uncooked, cooked	13NZ, 70@0.041, 1101Z	NA	0.0016*
				PB	Peel/, Peeled fruit-canned	13NZ, 70@0.041, 1101Z	NA	0.0016*
				PB	Juice/Juice concentrate	48@0.027, 644Z	NA	0.0005*

Grapefruit/5	2	4	PDP (Oranges)	NB	Peeled fruit-uncooked, cooked	13NZ, 70@0.041, 1992Z	NA	0.0016*
				PB	Peel/, Peeled fruit-canned	13NZ, 70@0.041, 1992Z	NA	0.0016*
				PB	Juice/Juice concentrate	48@0.027, 1152Z	NA	0.0005*
Lemons/5	1	1	PDP (Oranges)	NB	Peeled fruit-uncooked, cooked	13NZ, 70@0.041, 8217Z	NA	0.0012*
				PB	Peel/, Peeled fruit-canned	13NZ, 70@0.041, 8217Z	NA	0.0012*
				PB	Juice/Juice concentrate	48@0.027, 4752Z	NA	0.0003*
Potatoes/0.1	2	6	PDP	NB	White-peeled and white- whole: uncooked, cooked, baked, boiled, fried; white-peel only	42@0.018, 665Z	NA	0.0004*
				PB	White-peeled and white- whole: canned, frozen	42@0.018, 665Z	NA	0.0004*
				B	White-dry	NA	0.018*	0.0004*
Nectarines/4	39	79	PDP (Peaches)	NB	Uncooked	1000NZ, 59@0.032, 282Z	NA	0.0828*
Tea/10	6		FT	B	All food forms	NA	4.03	4.03
Beef, goat, sheep, and veal fat/0.1			FT	NB	All food forms	7@0.0165 93Z	NA	0.00012*
Beef, goat, horses, sheep, and veal - lean muscle/0.1			FT	NB	All food forms	7@0.0033 93Z	NA	0.000008*
Beef, goat, sheep, and veal (kidney, liver, meat by- products, and other organ meats)/0.1			FT	NB	All food forms	7@0.0014 93Z	NA	0.00001*
Milk/0.08 (Milk, fat/2 ppm)			FT	PB	All food forms	59@0.0012, 41Z	NA	0.0001*
Pork Fat/0.1			FT	NB	All food forms	1@0.0008, 99Z	NA	0.000007*
Pork - lean muscle/0.1			FT	NB	All food forms	1@0.00005, 99Z	NA	0.0000005*

Pork liver, kidney, meat by-products, and other organ meats/0.1		FT	NB	All food forms	1@0.00007, 99Z	NA	0.0000005*
Chicken, poultry, and turkey fat/0.1		FT	NB	All food forms	1@0.0066, 99Z	NA	0.00007*
Chicken, poultry, and turkey lean muscle		FT	NB	All food forms	1@0.0022, 99Z	NA	0.000022*
Chicken, poultry , and turkey liver		FT	NB	All food forms	1@0.0016, 99Z	NA	0.00016*
Chicken, poultry, and turkey kidney		FT	NB	All food forms	1@0.0095, 99Z	NA	0.00009*
Egg white only		FT	NB	All food forms	1@0.0006, 99Z	NA	0.000006*
Egg yolk only		FT	NB	All food forms	1@0.0012, 99Z	NA	0.000012*
Egg -whole/0.1		FT	NB	All food forms	1@0.0008, 99Z	NA	0.000008*

*Percent crop treated incorporated into these ARs.

Results/Discussion

Estimated acute dietary exposure is below HED's level of concern for all female subpopulations at the 99.9th percentile. Use of PDP monitoring data, field trial data, and calculated livestock ARs results in a maximum dietary risk estimate of 2 % of the acute PAD (% aPAD) for the subpopulation females (13-50 years) (Table 11).

Estimated chronic dietary risk estimate is below HED's level of concern. Use of PDP monitoring data, field trial data, and calculated livestock ARs results in a risk estimate of <1 % of the chronic PAD (% cPAD) for the U.S. Population and all population subgroups (Table 11).

Estimated cancer dietary exposure is 1.2×10^{-6} . Use of PDP monitoring data, field trial data, and calculated livestock ARs results in a maximum lifetime risk estimate of 1.2×10^{-6} for the general US population. The Critical Commodity Contribution Analysis indicated that milk food forms were contributors to the risk. Since PDP sampled 909 milk samples and all samples were < LOD, zeroes were inserted into the cancer dietary analysis. This sensitivity analysis resulted in a maximum lifetime risk estimate of 1.0×10^{-6} .

Table 11. Estimated Acute, Chronic, and Cancer Dietary Exposure/Risk.

Population Subgroup	Acute (Probabilistic) (99.9th %-ile)		Chronic		Cancer	
	Exposure (mg/kg/day)	% aPAD	Exposure (mg/kg/day)	% cPAD	Exposure (mg/kg/day)	Lifetime Risk (Q ₁ [*] = .201)
U.S. Population	NA	NA	0.000006	<1	0.000006	1.2 X 10 ⁻⁶
All infants (<1 yr)	NA	NA	0.000006	<1	NA	NA
Nursing infants (<1 yr)	NA	NA	0.000009	<1	NA	NA
Non-nursing infants (<1 yr)	NA	NA	0.000005	<1	NA	NA
Children (1-6 yrs)	NA	NA	0.000015	<1	NA	NA
Children (7-12 yrs)	NA	NA	0.000007	<1	NA	NA
Females (13+ preg/not nursing)	0.003001	4	0.000008	<1	NA	NA
Females (13+/nursing)	0.002014	3	0.000008	<1	NA	NA
Females (13-19 yrs/np/nn)	0.000422	1	0.000004	<1	NA	NA
Females (20+ yrs/np/nn)	0.001448	2	0.000005	<1	NA	NA
Females (13-50 years)	0.001384	2	0.000005	<1	NA	NA
Males (13-19 yrs)	NA	NA	0.000004	<1	NA	NA
Males (20+ yrs)	NA	NA	0.000005	<1	NA	NA

cc : Chem F, Chron F. Morton , L. Richardson

RDII:Team (5/22/00); Chemistry SAC (12/15/99); Dietary Exposure SAC (12/21/99); (M. Doherty, 5/18/00 & M. Xue, 5/18/00); SVH:5/23/00
TM, Thurston Morton, Rm. 816D CM2, 305-6691, mail code 7509C

List of Attachments:

- Attachment 1: Quantitative Usage Analysis, 5/22/00 (J. Alsadek, BEAD/OPP).
- Attachment 2: Residue Distribution Files for Probabilistic Analysis.
- Attachment 3: Residue Information.
- Attachment 4: Acute Analysis.
- Attachment 5: Chronic Analysis.
- Attachment 6: Cancer Analysis.
- Attachment 7: Cancer Analysis (with zeroes inserted for milk commodities).
- Attachment 8: Cancer Critical Commodity Contribution Analysis.
- Attachment 9: Cancer Critical Commodity Contribution Analysis (with zeroes inserted for milk commodities).

Attachment 1: Quantitative Usage Analysis, 5/22/00 (J. Alsadek, BEAD/OPP).

Based on available pesticide survey usage information for the years 1988 through 1998, an annual estimate of propagate's total domestic usage averaged almost two million pounds active ingredient (a. i.) for approximately a million and a quarter acres treated. Most of the acreage is treated with three pounds a. i. or less per application and two pounds and a half a. i. per year. Propagate is an insecticide with its largest markets in terms of average total pounds active ingredient allocated to corn, cotton, grapes, almonds, and walnuts. The remaining usage is primarily on apples, peaches, alfalfa, dry beans, potatoes, tangelos, nectarines, other stone-like fruit, and peanuts. Registered sites with little or no usage are: boysenberries, raspberries, currants, limes, filberts, macadamia and pistachio nuts, quinces, dates, persimmons, clover, Christmas tree plantations, forest trees, douglas and noble fir, scotch pine, carnation, chrysanthemum, rose, jojoba, blue spruce, and grand and noble fir. Tolerances for apples, apricots, succulent beans, cranberries, dried figs, fresh figs, peaches, pears, plums (fresh prunes), and strawberries have been revoked. Only six of them (plums and prunes, strawberries, apples, apricots, peaches, and pears, highlighted at the end of the usage profile) still show propagate use and the rest show very little or no use at all, and that is why they are not listed (fresh and dried figs, cranberries, and succulent beans). The 1991 USDA/NASS publication shows that 27 percent of bearing apples are treated with propargite, while 14 percent of the nonbearing apples are propagate treated. Most of the usage is in MA, FL, CA, MI, ID, WA, TX, OR, and MN.

Site	Acres	Acres Ttd (000)		% Crop Ttd		Lb AI (000)		Ave. Appl Rates			States of Most Usage (% of total lb ai used on this site)
	(000)	Grown	Weighted Average	Est Max	Weighted Average	Est Max	Weighted Average	Est Max	lb ai/acre/yr	# appl /year	lb ai/A /appl
Grapefruit	159	3.1	6.2	2.0%	3.9%	7.8	15.6	2.5	1.1	2.3	FL 100%
Lemons	62	0.1	0.9	0.2%	1.4%	0.3	1.6	2.4	1.0	2.4	CA 100%
Oranges	879	18.9	63.4	2.2%	7.2%	43.4	153.0	2.3	1.4	1.6	FL 95%
Tangelos	9	0.2	1.0	1.9%	10.6%	0.4	2.5	2.5	1.0	2.5	FL 100%
Avocados	82	2.9	6.0	3.5%	7.3%	21.9	45.6	7.6	1.0	7.6	CA 100%
Cherries, Sweet	47	2.6	6.0	5.5%	12.9%	6.5	6.9	2.5	1.0	2.5	CA 100%
Cherries, Tart	49	0.2	1.0	0.4%	2.1%	0.5	2.8	2.8	1.0	2.8	MI 100%
Nectarines	27	10.6	21.1	39.3%	78.5%	37.8	68.8	3.6	1.0	3.6	CA 100%
Stone-Like Fruit, Other	188	15.5	43.7	8.2%	23.2%	33.7	104.1	2.2	1.1	1.9	CA 85%
Grapes [1]	829	180.0	249.4	21.7%	30.1%	350.0	487.5	1.9	1.3	1.6	CA 100%

Almonds	435	150.0	256.5	34.5%	58.9%	320.0	542.0	2.1	1.2	1.8	CA 99%
Pecans	492	0.5	1.1	0.1%	0.2%	0.6	1.1	1.0	1.1	1.0	GA CA 95%
Walnuts	204	51.6	94.5	25.3%	46.3%	120.0	180.4	2.3	1.2	2.0	CA 100%
Carrots	104	0.6	2.0	0.6%	1.9%	0.2	0.4	0.4	1.0	0.4	CA 100%
Site	Acres (000)	Acres Ttd (000)		% Crop Ttd		Lb AI (000)		Ave. Appl Rates		States of Most Usage (% of total lb ai used on this site)	
	Grown	Weighted Average	Est Max	Weighted Average	Est Max	Weighted Average	Est Max	lb ai/ acre/yr	# appl /year	lb ai/A /appl	
Potatoes	1,433	29.6	84.2	2.1%	5.9%	43.0	126.2	1.5	1.0	1.5	WA 85%
Sweet Corn	731	3.7	7.3	0.5%	1.0%	10.0	20.1	2.7	1.4	2.0	CA WA 83%
Beans, Dry	1,809	87.4	180.0	2.0%	4.0%	50.4	111.4	0.6	1.0	0.6	CA ID WA 100%
Sorghum	11,115	22.0	44.0	0.2%	0.4%	2.8	5.5	0.1	1.0	0.1	TX 99%
Corn	73,357	280.0	504.0	0.4%	0.7%	460.0	891.5	1.6	1.0	1.6	CA NE CO KS 86%
Alfalfa	23,701	28.9	73.6	0.1%	0.3%	54.9	139.4	1.9	1.2	1.6	NV CA WA ID 83%
Peanuts	1,581	11.4	46.0	0.7%	2.9%	22.5	87.9	2.0	1.0	1.9	AL GA NC FL VA 91%
Soybeans	62,974	126.0	252.0	0.2%	0.4%	10.1	20.3	0.1	1.0	0.1	MN 99%
Cotton	12,859	210.0	372.0	1.6%	2.9%	360.0	706.1	1.7	1.2	1.5	CA AZ TN 94%
Hops	42	23.2	32.0	5.0%	8.0%	33.8	46.7	1.5	1.0	1.5	WA OR 93%
Sugar Beets	1,425	1.8	3.0	0.1%	0.2%	8.0	16.0	4.5	1.0	4.5	CA TX 81%
Tangerines	24	0.2	1.0	0.8%	4.3%	0.5	2.4	2.4	1.0	2.4	FL 100%
Mint	-	-	-	22.0%	34.0%	-	-	-	-	-	-
Ornamental	-	-	-	-	-	140.0	145.0	-	-	-	-

Tolerances for these crops have been revoked but some usage still occurs on the nonbearing acreage

Plums & Prunes	140	10.7	28.4	7.7%	20.3%	17.1	42.0	1.6	1.1	1.4	CA 91%
Strawberries	50	7.4	15.9	14.9%	32.1%	10.9	23.4	1.5	1.0	1.5	CA OR 84%
Apples	510	52.7	113.8	10.3%	22.3%	95.6	258.6	1.8	2.2	0.8	NY WA MI MA CA ME 64%
Apricots	19	0.2	1.0	0.9%	5.2%	0.8	2.4	4.7	1.0	4.7	CA 100%
Peaches	260	31.3	66.1	12.0%	25.4%	64.4	136.5	2.1	1.3	1.6	CA 81%
Pears	75	0.2	1.0	0.2%	1.3%	0.2	0.5	1.3	1.4	1.0	NY WA MA CA MI 87%
Total	1261	2351				1999	3783				

COLUMN HEADINGS

Weighted average--the most recent years and more reliable data are weighted more heavily.

Est Max = Estimated maximum, which is estimated from available data.

Average application rates are calculated from the weighted averages.

NOTES ON TABLE DATA

Usage data primarily covers 1988 - 1998.

Tea is imported from China (4.5% treated), Indonesia (0.7%), and Japan (0.4%) and the rest is imported from Taiwan and Vietnam (0.06% each).
 [1]: 41% of grapes are treated with propagate for raisin, 12% for table grapes, and 7% for wine.

* Other/Crop Groups

Stone-Like Fruit, Other includes apricots, avocados, dates, nectarines, olives, coconuts, mangoes, and feijoa.

SOURCES: EPA data (1988-98), USDA/NASS (1990-97), National Center for Food and Agricultural Policy (1992), CA (1993-95), and Maritz (1996, partial).

Attachment 2: Residue Distribution Files for Probabilistic Analysis.

ALMONDS	0.33	0.19	0.04
%CPTX=59	0.15	0.96	0.24
TOTALZ=4	0.03	0.01	0.32
TOTALNZ=6	0.05	0.73	0.01
0.025	0.17	0.02	0.07
0.025	0.02	0.79	0.04
0.025	0.39	1.11	0.22
0.025	0.01	0.03	0.27
0.06	0.02	0.02	0.08
0.09	0.03	0.23	0.05
	0.02	0.16	0.49
doc peaches translated to nectarines	0.13	1.01	0.02
PDP %CPTX=79	0.02	0.25	0.35
TOTALZ=282	0.09	0.10	2.89
TOTALLOD=59	0.40	0.01	0.06
LODRS=0.032	0.04	0.27	0.09
0.14	0.07	0.12	0.04
0.14	0.57	0.02	0.60
0.16	0.46	2.69	0.12
2.14	0.02	0.11	0.71
0.07	0.25	0.02	0.15
0.07	5.53	1.27	0.01
0.36	0.00	0.05	0.31
0.01	0.67	1.09	0.53
0.06	1.08	1.65	0.12
0.94	0.24	0.31	0.04
0.35	0.01	0.18	1.02
0.23	0.58	0.22	0.03
0.12	0.80	0.17	1.61
0.04	0.30	0.02	2.06
0.55	0.05	0.05	0.35
0.92	0.05	0.18	0.01
0.52	0.11	0.34	0.02
0.10	0.02	0.13	0.02
0.91	0.17	15.35	0.06
0.17	0.14	0.38	0.19
0.11	0.34	0.04	1.36
0.00	0.02	0.10	0.26
2.30	0.10	0.04	0.02
0.42	1.15	0.01	0.20
0.06	0.15	0.01	0.83
0.14	0.09	0.07	9.47
1.04	0.03	0.01	0.41
0.26	0.03	2.37	0.03
0.00	0.08	0.23	0.56
0.01	0.07	0.09	0.13
0.01	0.03	0.00	0.21
0.07	0.02	0.03	0.07
0.20	0.06	0.00	0.04
0.01	0.07	0.05	0.76
0.15	0.27	0.02	0.22
0.16	0.45	0.02	0.74
0.77	0.04	0.21	0.03
0.31	0.03	0.01	0.01
0.34	0.47	0.81	0.09
0.23	0.62	0.14	0.12
0.42	0.50	0.11	0.51
0.07	0.44	0.49	0.34
0.05	0.14	1.88	0.10
1.19	0.16	0.02	0.07
0.08	0.11	0.27	0.08
0.05	0.68	0.09	0.00
0.06	0.06	0.07	0.33
0.02	0.59	3.96	0.06
0.15	0.28	0.36	0.01

1.73	1.34	0.01	0.01
0.18	0.02	0.00	0.10
0.43	0.04	0.03	0.00
0.90	0.08	0.03	0.01
0.21	0.03	0.02	0.04
0.13	0.28	0.09	0.20
0.01	0.02	0.10	0.02
0.05	0.03	0.03	0.09
0.37	0.29	0.05	0.58
0.04	0.00	0.07	0.03
0.12	0.01	0.05	0.24
0.04	0.12	0.28	4.41
4.63	0.38	0.11	0.13
0.16	0.17	0.65	0.10
0.09	0.04	0.05	0.10
0.06	0.02	0.03	0.22
2.50	0.01	0.08	0.37
0.19	0.01	0.03	1.98
0.10	0.03	0.02	0.01
0.08	0.08	0.19	0.10
0.17	0.09	0.21	0.06
0.04	0.55	0.04	0.87
0.41	1.43	0.14	0.65
0.59	0.11	0.06	0.47
0.25	0.04	0.13	0.16
0.05	0.08	0.20	0.01
0.13	1.80	1.22	0.70
0.08	0.98	0.48	0.05
0.07	0.04	2.22	1.46
0.53	0.02	3.72	0.74
0.04	0.03	0.67	0.12
0.10	0.08	0.20	0.06
0.04	0.25	0.15	0.22
0.03	0.06	0.04	0.13
0.13	0.00	0.02	0.27
0.05	0.02	0.07	0.44
0.11	0.39	0.01	3.18
0.03	0.25	0.25	0.01
0.16	0.03	0.01	1.58
0.30	0.11	0.03	0.06
0.01	0.47	0.51	0.03
0.04	0.26	0.06	0.85
0.03	0.20	0.64	0.13
0.17	0.00	0.69	0.18
0.04	1.18	0.01	0.12
0.18	0.15	0.40	0.01
0.33	0.12	0.08	0.03
0.07	0.11	0.29	0.11
0.09	0.08	0.08	0.05
0.09	0.63	0.01	0.09
0.09	0.14	0.05	1.53
0.14	0.30	0.87	0.07
0.32	0.04	0.01	0.21
0.29	0.18	0.05	3.17
0.05	0.45	0.18	0.38
1.41	0.54	6.91	0.29
0.17	0.02	0.01	0.31
0.06	0.19	0.10	0.02
1.29	0.43	0.06	0.23
0.15	0.02	0.06	0.02
0.03	0.01	0.02	0.02
0.01	0.08	0.24	2.73
0.06	0.40	0.01	0.14
0.00	0.01	0.21	0.31
0.05	0.04	0.05	0.19

0.24	0.15	0.19	0.05
0.18	0.09	0.18	0.30
0.02	0.10	0.13	0.93
0.20	0.21	0.37	0.03
1.56	1.98	0.15	0.38
0.15	0.01	0.20	0.02
0.42	0.08	0.77	0.06
0.27	0.13	0.50	0.44
0.04	0.02	0.25	0.02
0.02	0.03	0.01	0.13
9.81	0.06	0.05	0.39
0.06	0.09	0.01	1.03
4.60	0.11	0.06	0.03
0.18	0.00	3.80	0.02
0.51	0.04	0.03	0.36
0.09	0.02	0.02	0.05
0.68	0.07	4.45	0.04
0.03	0.03	0.00	0.04
0.06	0.21	0.02	0.70
0.23	0.01	0.35	0.22
0.13	0.10	0.03	0.34
0.01	0.74	0.04	0.17
0.00	0.02	2.10	0.46
0.14	0.01	0.21	0.07
0.19	0.13	0.27	0.07
0.01	0.15	0.07	0.07
0.10	0.93	0.05	0.88
0.18	0.10	0.02	0.03
0.05	0.14	0.12	0.12
1.28	0.00	0.10	0.12
0.27	3.22	0.16	17.57
0.04	0.02	0.06	2.16
1.35	0.02	0.02	0.03
0.56	0.91	0.51	0.30
0.08	0.24	1.53	1.44
0.10	1.74	0.07	0.22
0.31	0.06	0.36	0.04
0.13	2.55	0.20	1.16
0.48	0.66	3.71	0.24
0.16	0.11	0.14	0.23
0.05	0.03	0.78	0.12
0.01	0.46	0.18	0.03
0.09	0.64	0.06	0.01
0.03	0.11	0.04	0.03
0.07	0.09	0.98	0.08
0.02	0.02	0.05	0.40
1.07	0.51	0.01	0.33
0.02	0.11	0.06	0.05
0.02	0.41	0.73	0.47
0.00	0.08	0.14	0.02
0.03	0.44	0.14	0.05
0.00	0.26	0.05	0.26
0.09	0.04	2.89	0.02
0.03	0.08	0.12	0.15
0.05	0.02	0.16	0.22
0.06	0.05	0.13	6.13
0.06	0.12	0.07	0.05
0.08	0.04	0.01	0.77
0.00	1.65	0.01	0.04
0.70	0.16	0.03	0.03
0.03	0.01	0.01	0.08
0.84	0.03	0.10	0.81
0.32	0.03	0.62	0.54
0.02	0.05	0.60	0.05
0.22	0.08	0.17	1.47

0.32	1.34	0.21	0.62
0.00	0.03	1.10	0.06
0.01	0.66	0.06	0.11
0.04	0.19	0.40	0.35
0.32	1.86	0.00	0.01
0.09	0.12	0.06	0.07
0.23	0.00	0.40	2.30
0.01	0.07	0.26	1.62
0.43	0.48	0.30	0.86
0.04	0.37	0.68	0.02
0.28	0.06	0.24	0.03
0.01	0.01	0.29	0.05
0.53	0.08	0.16	0.05
0.02	0.02	0.34	0.57
0.02	0.09	0.04	0.03
0.16	0.07	0.03	0.11
0.11	0.11	0.00	0.21
0.34	0.01	0.27	0.04
0.06	0.07	0.14	0.06
0.03	0.02	0.10	0.04
0.01	0.37	0.02	0.03
0.03	0.09	0.01	0.09
0.04	0.28	0.41	0.15
0.01	0.25	0.31	0.10
0.09	0.13	0.10	0.04
0.38	0.59	0.34	0.06
0.02	0.49	0.53	1.25
0.01	0.05	0.55	0.06
0.16	0.01	0.96	0.17
0.04	0.02	0.12	0.23
0.29	0.08	1.01	0.22
0.02	1.03	0.22	0.08
0.01	0.18	0.45	0.15
0.39	0.19	0.07	0.07
0.10	0.04	0.02	2.37
0.17	0.02	0.17	0.21
0.10	0.20	0.61	0.45
0.07	0.03	1.24	0.08
0.33	0.28	0.75	0.05
0.49	0.06	0.08	1.13
0.43	0.04	0.83	
0.01	0.24	0.01	doc GRAPEFRUITJUICE PDP
1.80	0.17	0.04	%CPTX=4
1.19	0.01	0.26	TOTALZ=1152
1.96	0.02	0.14	TOTALLOD=47
0.09	0.01	0.09	LODRES=0.027
0.08	0.42	0.07	0.027
3.07	0.01	0.11	
0.11	0.11	7.41	doc GRAPEFRUIT PDP %CPTX=4
0.01	0.07	0.12	TOTALZ=1992
0.05	0.29	0.01	TOTALLOD=70
0.25	0.35	0.19	LODRES=0.041
0.08	0.12	0.29	0.02
0.01	0.04	0.13	0.02
0.01	0.16	1.38	0.02
0.59	0.57	0.80	0.02
0.17	0.11	0.00	0.02
0.15	0.14	0.25	0.02
0.64	0.02	0.04	0.02
0.03	0.26	0.04	0.02
0.13	0.88	1.11	0.02
0.18	0.09	0.00	0.046
0.71	0.31	0.01	0.047
0.01	0.01	0.20	0.22
0.05	0.02	0.05	0.94

DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.016

DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.00005

Documentation:doc poultry fat
propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0066

Documentation:doc poultry kidney
propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0095

Documentation:doc poultry muscle
propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0022

Documentation:doc poultry egg
white propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0006

Documentation:doc poultry egg
whole propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0008

Documentation:doc poultry egg yolk
propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0012

Documentation:doc swine fat
propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.0008

Documentation:doc swine
liver.kidney. mbyp propargite
DOC ASSUMING 1% crop treated
TOTALNZ=1
TOTALZ=99
0.00007

Documentation:doc swine muscle
propargite

Attachment 3: Residue Information.

Acute Dietary Analysis

Filename: C:\deem\097601\revacute1.RS7 Chemical: Propargite
RfD(Chronic): .04 mg/kg bw/day NOEL(Chronic): 4 mg/kg bw/day
RfD(Acute): .08 mg/kg bw/day NOEL(Acute): 8 mg/kg bw/day Q*= .201
Date created/last modified: 05-23-2000/12:41:32/8 Program ver. 7.075
Comment: Propargite acute dietary analysis using PDP and Field trial data.

RDL indices and parameters for Monte Carlo Analysis:

Index Dist Parameter #1 Param #2 Param #3

Code

1 6 almonds.rdf
2 6 swtcorn.rdf
3 6 gpfrtjupdp.rdf
4 6 gpfrtpdp.rdf
5 6 tblgrppdp.rdf
6 6 lemjupdp.rdf
7 6 lempdp.rdf
8 6 milk.rdf
9 6 decnect.rdf
10 6 ojpdp.rdf
11 6 orangpdp.rdf
12 6 potatpdp.rdf
13 6 walnuts.rdf
14 6 beeflean.rdf
15 6 beeffat.rdf
16 6 beefother.rdf
17 6 poultryfat.rdf
18 6 poultrykidney.rdf
19 6 poultrylean.rdf
20 6 poultryliver.rdf
21 6 eggwhite.rdf
22 6 eggwhole.rdf
23 6 eggylolk.rdf
24 6 porkfat.rdf
25 6 porklean.rdf
26 6 porkother.rdf
27 6 raisgrp.rdf
28 6 winegrppdp.rdf

Food Code	Crop Grp	Food Name	Def Res (ppm)	Res #1	Adj.Factors #2	RDL Pntr
40	14	Almonds	0.100000	1.000	1.000	1
258	6C	Beans-dry-blackeye	0.090000	1.000	0.040	
249	6C	Beans-dry-broadbeans	0.090000	1.000	0.040	
259	6C	Beans-dry-garbanzo/chick pea	0.090000	1.000	0.040	
227	6C	Beans-dry-great northern	0.090000	1.000	0.040	
256	6C	Beans-dry-hyacinth	0.090000	1.000	0.040	
228	6C	Beans-dry-kidney	0.090000	1.000	0.040	
229	6C	Beans-dry-lima	0.090000	1.000	0.040	
230	6C	Beans-dry-navy (pea)	0.090000	1.000	0.040	
231	6C	Beans-dry-other	0.090000	1.000	0.040	
251	6C	Beans-dry-pigeon beans	0.090000	1.000	0.040	

232 6C	Beans-dry-pinto	0.090000	1.000	0.040
323 M	Beef-dried	0.004000	1.920	1.000 14
324 M	Beef-fat w/o bones	0.055000	1.000	1.000 15
325 M	Beef-kidney	0.005000	1.000	1.000 16
327 M	Beef-lean (fat/free) w/o bones	0.004000	1.000	1.000 14
326 M	Beef-liver	0.005000	1.000	1.000 16
321 M	Beef-meat byproducts	0.005000	1.000	1.000 16
322 M	Beef-other organ meats	0.005000	1.000	1.000 16
366 P	Chicken-byproducts	0.016000	1.000	1.000 20
368 P	Chicken-fat w/o bones	0.006600	1.000	1.000 17
367 P	Chicken-giblets(liver)	0.016000	1.000	1.000 20
385 P	Chicken-giblets (excl. liver)	0.009500	1.000	1.000 18
369 P	Chicken-lean/fat free w/o bones	0.002200	1.000	1.000 19
267 15	Corn grain-bran	0.025000	1.000	0.010
266 15	Corn grain-endosperm	0.025000	1.000	0.010
289 15	Corn grain-oil	0.025000	5.100	0.010
268 15	Corn grain/sugar/hfcs	0.025000	0.440	0.010
388 15	Corn grain/sugar-molasses	0.025000	1.500	0.010
237 15	Corn/pop	0.025000	1.000	0.010
238 15	Corn/sweet	0.100000	1.000	1.000 2
291 O	Cottonseed-meal	0.055000	0.010	0.030
290 O	Cottonseed-oil	0.055000	0.200	0.030
364 P	Eggs-white only	0.000600	1.000	1.000 21
363 P	Eggs-whole	0.000800	1.000	1.000 22
365 P	Eggs-yolk only	0.001200	1.000	1.000 23
330 M	Goat-fat w/o bone	0.055000	1.000	1.000 15
331 M	Goat-kidney	0.005000	1.000	1.000 16
333 M	Goat-lean (fat/free) w/o bone	0.004000	1.000	1.000 14
332 M	Goat-liver	0.005000	1.000	1.000 16
328 M	Goat-meat byproducts	0.005000	1.000	1.000 16
329 M	Goat-other organ meats	0.005000	1.000	1.000 16
23 10	Grapefruit-juice	5.000000	1.000	1.000 3
441 10	Grapefruit-juice-concentrate	5.000000	3.900	1.000 3
448 10	Grapefruit peel	5.000000	1.000	1.000 4
22 10	Grapefruit-peeled fruit			
	11-Uncooked	5.000000	1.000	1.000 4
	12-Cooked: NFS	5.000000	1.000	1.000 4
	31-Canned: NFS	5.000000	1.000	1.000 4
13 O	Grapes	10.000000	1.000	1.000 5
15 O	Grapes-juice	10.000000	0.190	1.000 5
392 O	Grapes-juice-concentrate	10.000000	0.570	1.000 5
195 O	Grapes-leaves	10.000000	1.000	1.000 5
14 O	Grapes-raisins	10.000000	3.700	1.000 27
315 O	Grapes-wine and sherry	10.000000	0.022	1.000 28
125 O	Hops	14.000000	0.410	0.080
334 M	Horsemeat	0.004000	1.000	1.000 14
28 10	Lemons-juice	5.000000	1.000	1.000 6
442 10	Lemons-juice-concentrate	5.000000	5.700	1.000 6
27 10	Lemons-peel	5.000000	1.000	1.000 7
26 10	Lemons-peeled fruit	5.000000	1.000	1.000 7
398 D	Milk-based water	0.001800	1.000	1.000 8
319 D	Milk-fat solids	0.001800	1.000	1.000 8
318 D	Milk-nonfat solids	0.001800	1.000	1.000 8
320 D	Milk sugar (lactose)	0.001800	1.000	1.000 8
244 6C	Mung beans (sprouts)	0.090000	1.000	0.040
64 12	Nectarines			
	11-Uncooked	4.000000	1.000	1.000 9

36 10	Oranges-juice	5.000000	1.000	1.000	10
33 10	Oranges-juice-concentrate	5.000000	3.700	1.000	10
35 10	Oranges-peel	5.000000	1.000	1.000	11
34 10	Oranges-peeled fruit	5.000000	1.000	1.000	11
403 O	Peanuts-butter	0.100000	1.890	0.030	
940 O	Peanuts-hulled	0.100000	1.000	0.030	
293 O	Peanuts-oil	0.100000	2.700	0.030	
310 O	Peppermint	2.730000	1.000	0.340	
311 O	Peppermint-oil	2.730000	1.000	0.340	
344 M	Pork-fat w/o bone	0.001200	1.000	1.000	24
345 M	Pork-kidney	0.000100	1.000	1.000	26
347 M	Pork-lean (fat free) w/o bone	0.000080	1.000	1.000	25
346 M	Pork-liver	0.000100	1.000	1.000	26
342 M	Pork-meat byproducts	0.000100	1.000	1.000	26
343 M	Pork-other organ meats	0.000100	1.000	1.000	26
210 1C	Potatoes/white-dry	0.018000	1.000	1.000	
209 1C	Potatoes/white-peeled	0.100000	1.000	1.000	12
211 1C	Potatoes/white-peel only	0.100000	1.000	1.000	12
208 1C	Potatoes/white-unspecified	0.100000	1.000	1.000	12
207 1C	Potatoes/white-whole	0.100000	1.000	1.000	12
362 P	Poultry-other-fat w/o bones	0.006600	1.000	1.000	17
361 P	Poultry-other-giblets(liver)	0.016000	1.000	1.000	20
360 P	Poultry-other-lean (fat free) w/	0.002200	1.000	1.000	19
338 M	Sheep-fat w/o bone	0.055000	1.000	1.000	15
339 M	Sheep-kidney	0.005000	1.000	1.000	16
341 M	Sheep-lean (fat free) w/o bone	0.004000	1.000	1.000	14
340 M	Sheep-liver	0.005000	1.000	1.000	16
336 M	Sheep-meat byproducts	0.005000	1.000	1.000	16
337 M	Sheep-other organ meats	0.005000	1.000	1.000	16
275 15	Sorghum (including milo)	0.210000	1.000	0.010	
312 O	Spearmint	4.730000	1.000	0.340	
313 O	Spearmint-oil	4.730000	1.000	0.340	
113 O	Tea	4.030000	0.060	0.060	
355 P	Turkey-byproducts	0.016000	1.000	1.000	20
357 P	Turkey--fat w/o bones	0.006600	1.000	1.000	17
356 P	Turkey-giblets (liver)	0.016000	1.000	1.000	20
358 P	Turkey- lean/fat free w/o bones	0.002200	1.000	1.000	19
449 P	Turkey-other organ meats	0.016000	1.000	1.000	20
429 M	Veal-dried	0.004000	1.920	1.000	14
424 M	Veal-fat w/o bones	0.055000	1.000	1.000	15
426 M	Veal-kidney	0.005000	1.000	1.000	16
425 M	Veal-lean (fat free) w/o bones	0.004000	1.000	1.000	14
427 M	Veal-liver	0.005000	1.000	1.000	16
430 M	Veal-meat byproducts	0.005000	1.000	1.000	16
428 M	Veal-other organ meats	0.005000	1.000	1.000	16
431 14	Walnut oil	0.025000	1.000	0.460	
48 14	Walnuts	0.100000	1.000	1.000	13

Chronic Dietary Analysis

Filename: C:\deem\097601\revchronic.RS7 Chemical: Propargite
 RfD(Chronic): .04 mg/kg bw/day NOEL(Chronic): 4 mg/kg bw/day
 RfD(Acute): .08 mg/kg bw/day NOEL(Acute): 8 mg/kg bw/day Q*= .201
 Date created/last modified: 05-22-2000/10:20:19/8 Program ver. 7.075
 Comment: Revised Propargite chronic dietary analysis using PDP and Field trial data.

RDL indices and parameters for Monte Carlo Analysis:

Index Dist Parameter #1 Param #2 Param #3

Code

1	6	almonds.rdf
2	6	drybeans.rdf
3	6	corn.rdf
4	6	cottseed.rdf
5	6	nectrine.rdf
6	6	peanuts.rdf
7	6	sorghum.rdf
8	6	grapes.rdf
9	6	mintoil.rdf
10	6	hops.rdf
11	6	ojpdp.rdf
12	6	milkpdp.rdf
13	6	grppdp.rdf
14	6	orangpdp.rdf
15	6	potatpdp.rdf

Note: No residue distributions have been assigned to RAC/FoodForms below

Food Crop Code	Def Res Grp	Adj.Factors Food Name	Res (ppm)	#1	#2
40 14	Almonds		0.042000	1.000	0.350
258 6C	Beans-dry-blackeye	peas/cowpea	0.090000	1.000	0.020
249 6C	Beans-dry-broadbeans		0.090000	1.000	0.020
259 6C	Beans-dry-garbanzo/chick pea		0.090000	1.000	0.020
227 6C	Beans-dry-great northern		0.090000	1.000	0.020
256 6C	Beans-dry-hyacinth		0.090000	1.000	0.020
228 6C	Beans-dry-kidney		0.090000	1.000	0.020
229 6C	Beans-dry-lima		0.090000	1.000	0.020
230 6C	Beans-dry-navy (pea)		0.090000	1.000	0.020
231 6C	Beans-dry-other		0.090000	1.000	0.020
251 6C	Beans-dry-pigeon beans		0.090000	1.000	0.020
232 6C	Beans-dry-pinto		0.090000	1.000	0.020
323 M	Beef-dried		0.000008	1.920	1.000
324 M	Beef-fat w/o bones		0.000120	1.000	1.000
325 M	Beef-kidney		0.000010	1.000	1.000
327 M	Beef-lean (fat/free) w/o bones		0.000008	1.000	1.000
326 M	Beef-liver		0.000010	1.000	1.000
321 M	Beef-meat byproducts		0.000010	1.000	1.000
322 M	Beef-other organ meats		0.000010	1.000	1.000
366 P	Chicken-byproducts		0.000160	1.000	1.000
368 P	Chicken-fat w/o bones		0.000070	1.000	1.000
367 P	Chicken-giblets(liver)		0.000160	1.000	1.000
385 P	Chicken-giblets (excl. liver)		0.000090	1.000	1.000

369	P	Chicken-lean/fat free w/o bones	0.000022	1.000	1.000
267	15	Corn grain-bran	0.025000	1.000	0.010
266	15	Corn grain-endosperm	0.025000	1.000	0.010
289	15	Corn grain-oil	0.025000	1.000	0.010
268	15	Corn grain/sugar/hfcs	0.025000	0.440	0.010
388	15	Corn grain/sugar-molasses	0.025000	1.500	0.010
237	15	Corn/pop	0.025000	1.000	0.010
238	15	Corn/sweet	0.050000	1.000	0.010
291	O	Cottonseed-meal	0.055000	1.000	0.020
290	O	Cottonseed-oil	0.055000	1.000	0.020
364	P	Eggs-white only	0.000006	1.000	1.000
363	P	Eggs-whole	0.000008	1.000	1.000
365	P	Eggs-yolk only	0.000012	1.000	1.000
330	M	Goat-fat w/o bone	0.000120	1.000	1.000
331	M	Goat-kidney	0.000010	1.000	1.000
333	M	Goat-lean (fat/free) w/o bone	0.000008	1.000	1.000
332	M	Goat-liver	0.000010	1.000	1.000
328	M	Goat-meat byproducts	0.000010	1.000	1.000
329	M	Goat-other organ meats	0.000010	1.000	1.000
23	10	Grapefruit-juice	0.000500	1.000	1.000
441	10	Grapefruit-juice-concentrate	0.000500	3.900	1.000
448	10	Grapefruit peel	0.001600	1.000	1.000
22	10	Grapefruit-peeled fruit	0.001600	1.000	1.000
13	O	Grapes	0.009000	1.000	1.000
15	O	Grapes-juice	0.009000	0.190	1.000
392	O	Grapes-juice-concentrate	0.009000	0.570	1.000
195	O	Grapes-leaves	0.009000	1.000	1.000
14	O	Grapes-raisins	0.014000	1.760	1.000
315	O	Grapes-wine and sherry	0.008000	0.022	1.000
125	O	Hops	14.000000	0.410	0.050
334	M	Horsemeat	0.000008	1.000	1.000
28	10	Lemons-juice	0.000300	1.000	1.000
442	10	Lemons-juice-concentrate	0.000300	5.700	1.000
27	10	Lemons-peel	0.001200	1.000	1.000
26	10	Lemons-peeled fruit	0.001200	1.000	1.000
398	D	Milk-based water	0.000100	1.000	1.000
319	D	Milk-fat solids	0.000100	1.000	1.000
318	D	Milk-nonfat solids	0.000100	1.000	1.000
320	D	Milk sugar (lactose)	0.000100	1.000	1.000
244	6C	Mung beans (sprouts)	0.090000	1.000	0.020
64	12	Nectarines	0.082800	1.000	1.000
36	10	Oranges-juice	0.000500	1.000	1.000
33	10	Oranges-juice-concentrate	0.000500	3.700	1.000
35	10	Oranges-peel	0.001600	1.000	1.000
34	10	Oranges-peeled fruit	0.001600	1.000	1.000
403	O	Peanuts-butter	0.100000	1.890	0.010
940	O	Peanuts-hulled	0.100000	1.000	0.010
293	O	Peanuts-oil	0.100000	2.700	0.010
310	O	Peppermint	2.730000	1.000	0.220
311	O	Peppermint-oil	2.730000	1.000	0.220
344	M	Pork-fat w/o bone	0.000007	1.000	1.000
345	M	Pork-kidney	0.000005	1.000	0.100
347	M	Pork-lean (fat free) w/o bone	0.000007	1.000	1.000
346	M	Pork-liver	0.000005	1.000	0.100
342	M	Pork-meat byproducts	0.000005	1.000	0.100
343	M	Pork-other organ meats	0.000005	1.000	0.100
210	1C	Potatoes/white-dry	0.000400	1.000	1.000

209	1C	Potatoes/white-peeled	0.000400	1.000	1.000
211	1C	Potatoes/white-peel only	0.000400	1.000	1.000
208	1C	Potatoes/white-unspecified	0.000400	1.000	1.000
207	1C	Potatoes/white-whole	0.000400	1.000	1.000
362	P	Poultry-other-fat w/o bones	0.000070	1.000	1.000
361	P	Poultry-other-giblets(liver)	0.000160	1.000	1.000
360	P	Poultry-other-lean (fat free) w/	0.000022	1.000	1.000
338	M	Sheep-fat w/o bone	0.000120	1.000	1.000
339	M	Sheep-kidney	0.000010	1.000	1.000
341	M	Sheep-lean (fat free) w/o bone	0.000008	1.000	1.000
340	M	Sheep-liver	0.000010	1.000	1.000
336	M	Sheep-meat byproducts	0.000010	1.000	1.000
337	M	Sheep-other organ meats	0.000010	1.000	1.000
275	15	Sorghum (including milo)	0.210000	1.000	0.010
312	O	Spearmint	4.730000	1.000	0.220
313	O	Spearmint-oil	4.730000	1.000	0.220
113	O	Tea	4.030000	0.052	0.060
355	P	Turkey-byproducts	0.000160	1.000	1.000
357	P	Turkey--fat w/o bones	0.000070	1.000	1.000
356	P	Turkey-giblets (liver)	0.000160	1.000	1.000
358	P	Turkey- lean/fat free w/o bones	0.000022	1.000	1.000
449	P	Turkey-other organ meats	0.000160	1.000	1.000
429	M	Veal-dried	0.000008	1.920	1.000
424	M	Veal-fat w/o bones	0.000120	1.000	1.000
426	M	Veal-kidney	0.000010	1.000	1.000
425	M	Veal-lean (fat free) w/o bones	0.000008	1.000	1.000
427	M	Veal-liver	0.000010	1.000	1.000
430	M	Veal-meat byproducts	0.000010	1.000	1.000
428	M	Veal-other organ meats	0.000010	1.000	1.000
431	14	Walnut oil	0.025000	1.000	0.250
48	14	Walnuts	0.025000	1.000	0.250

Cancer Dietary Analysis

Filename: C:\deem\097601\revcancer.RS7 Chemical: Propargite
 RfD(Chronic): .04 mg/kg bw/day NOEL(Chronic): 4 mg/kg bw/day
 RfD(Acute): .08 mg/kg bw/day NOEL(Acute): 8 mg/kg bw/day Q*= .201
 Date created/last modified: 05-22-2000/10:22:36/8 Program ver. 7.075
 Comment: Revised Propargite cancer dietary analysis using PDP and Field trial data.

RDL indices and parameters for Monte Carlo Analysis:

Index Dist Parameter #1 Param #2 Param #3

Code

1	6	almonds.rdf
2	6	drybeans.rdf
3	6	corn.rdf
4	6	cottseed.rdf
5	6	nectrine.rdf
6	6	peanuts.rdf
7	6	sorghum.rdf
8	6	grapes.rdf
9	6	mintoil.rdf
10	6	hops.rdf
11	6	ojpd.pdp.rdf
12	6	milkpd.pdp.rdf
13	6	grppd.pdp.rdf
14	6	orangpd.pdp.rdf
15	6	potatpd.pdp.rdf

Note: No residue distributions have been assigned to RAC/FoodForms below

Food Crop Code	Def Res Grp	Adj.Factors Food Name	Res (ppm)	#1	#2
40 14	Almonds		0.042000	1.000	0.350
258 6C	Beans-dry-blackeye	peas/cowpea	0.090000	1.000	0.020
249 6C	Beans-dry-broadbeans		0.090000	1.000	0.020
259 6C	Beans-dry-garbanzo/chick pea		0.090000	1.000	0.020
227 6C	Beans-dry-great northern		0.090000	1.000	0.020
256 6C	Beans-dry-hyacinth		0.090000	1.000	0.020
228 6C	Beans-dry-kidney		0.090000	1.000	0.020
229 6C	Beans-dry-lima		0.090000	1.000	0.020
230 6C	Beans-dry-navy (pea)		0.090000	1.000	0.020
231 6C	Beans-dry-other		0.090000	1.000	0.020
251 6C	Beans-dry-pigeon beans		0.090000	1.000	0.020
232 6C	Beans-dry-pinto		0.090000	1.000	0.020
323 M	Beef-dried		0.000008	1.920	1.000
324 M	Beef-fat w/o bones		0.000120	1.000	1.000
325 M	Beef-kidney		0.000010	1.000	1.000
327 M	Beef-lean (fat/free) w/o bones		0.000008	1.000	1.000
326 M	Beef-liver		0.000010	1.000	1.000
321 M	Beef-meat byproducts		0.000010	1.000	1.000
322 M	Beef-other organ meats		0.000010	1.000	1.000
366 P	Chicken-byproducts		0.000160	1.000	1.000
368 P	Chicken-fat w/o bones		0.000070	1.000	1.000
367 P	Chicken-giblets(liver)		0.000160	1.000	1.000
385 P	Chicken-giblets (excl. liver)		0.000090	1.000	1.000

369	P	Chicken-lean/fat free w/o bones	0.000022	1.000	1.000
267	15	Corn grain-bran	0.025000	1.000	0.010
266	15	Corn grain-endosperm	0.025000	1.000	0.010
289	15	Corn grain-oil	0.025000	1.000	0.010
268	15	Corn grain/sugar/hfcs	0.025000	0.440	0.010
388	15	Corn grain/sugar-molasses	0.025000	1.500	0.010
237	15	Corn/pop	0.025000	1.000	0.010
238	15	Corn/sweet	0.050000	1.000	0.010
291	O	Cottonseed-meal	0.055000	1.000	0.020
290	O	Cottonseed-oil	0.055000	1.000	0.020
364	P	Eggs-white only	0.000006	1.000	1.000
363	P	Eggs-whole	0.000008	1.000	1.000
365	P	Eggs-yolk only	0.000012	1.000	1.000
330	M	Goat-fat w/o bone	0.000120	1.000	1.000
331	M	Goat-kidney	0.000010	1.000	1.000
333	M	Goat-lean (fat/free) w/o bone	0.000008	1.000	1.000
332	M	Goat-liver	0.000010	1.000	1.000
328	M	Goat-meat byproducts	0.000010	1.000	1.000
329	M	Goat-other organ meats	0.000010	1.000	1.000
23	10	Grapefruit-juice	0.000500	1.000	1.000
441	10	Grapefruit-juice-concentrate	0.000500	3.900	1.000
448	10	Grapefruit peel	0.001600	1.000	1.000
22	10	Grapefruit-peeled fruit	0.001600	1.000	1.000
13	O	Grapes	0.009000	1.000	1.000
15	O	Grapes-juice	0.009000	0.190	1.000
392	O	Grapes-juice-concentrate	0.009000	0.570	1.000
195	O	Grapes-leaves	0.009000	1.000	1.000
14	O	Grapes-raisins	0.014000	1.760	1.000
315	O	Grapes-wine and sherry	0.008000	0.022	1.000
125	O	Hops	14.000000	0.410	0.050
334	M	Horsemeat	0.000008	1.000	1.000
28	10	Lemons-juice	0.000300	1.000	1.000
442	10	Lemons-juice-concentrate	0.000300	5.700	1.000
27	10	Lemons-peel	0.001200	1.000	1.000
26	10	Lemons-peeled fruit	0.001200	1.000	1.000
398	D	Milk-based water	0.000100	1.000	1.000
319	D	Milk-fat solids	0.000100	1.000	1.000
318	D	Milk-nonfat solids	0.000100	1.000	1.000
320	D	Milk sugar (lactose)	0.000100	1.000	1.000
244	6C	Mung beans (sprouts)	0.090000	1.000	0.020
64	12	Nectarines	0.082800	1.000	1.000
36	10	Oranges-juice	0.000500	1.000	1.000
33	10	Oranges-juice-concentrate	0.000500	3.700	1.000
35	10	Oranges-peel	0.001600	1.000	1.000
34	10	Oranges-peeled fruit	0.001600	1.000	1.000
403	O	Peanuts-butter	0.100000	1.890	0.010
940	O	Peanuts-hulled	0.100000	1.000	0.010
293	O	Peanuts-oil	0.100000	2.700	0.010
310	O	Peppermint	2.730000	1.000	0.220
311	O	Peppermint-oil	2.730000	1.000	0.220
344	M	Pork-fat w/o bone	0.000007	1.000	1.000
345	M	Pork-kidney	0.000005	1.000	0.100
347	M	Pork-lean (fat free) w/o bone	0.000007	1.000	1.000
346	M	Pork-liver	0.000005	1.000	0.100
342	M	Pork-meat byproducts	0.000005	1.000	0.100
343	M	Pork-other organ meats	0.000005	1.000	0.100
210	1C	Potatoes/white-dry	0.000400	1.000	1.000

209	1C	Potatoes/white-peeled	0.000400	1.000	1.000
211	1C	Potatoes/white-peel only	0.000400	1.000	1.000
208	1C	Potatoes/white-unspecified	0.000400	1.000	1.000
207	1C	Potatoes/white-whole	0.000400	1.000	1.000
362	P	Poultry-other-fat w/o bones	0.000070	1.000	1.000
361	P	Poultry-other-giblets(liver)	0.000160	1.000	1.000
360	P	Poultry-other-lean (fat free) w/	0.000022	1.000	1.000
338	M	Sheep-fat w/o bone	0.000120	1.000	1.000
339	M	Sheep-kidney	0.000010	1.000	1.000
341	M	Sheep-lean (fat free) w/o bone	0.000008	1.000	1.000
340	M	Sheep-liver	0.000010	1.000	1.000
336	M	Sheep-meat byproducts	0.000010	1.000	1.000
337	M	Sheep-other organ meats	0.000010	1.000	1.000
275	15	Sorghum (including milo)	0.210000	1.000	0.010
312	O	Spearmint	4.730000	1.000	0.220
313	O	Spearmint-oil	4.730000	1.000	0.220
113	O	Tea	4.030000	0.052	0.060
355	P	Turkey-byproducts	0.000160	1.000	1.000
357	P	Turkey--fat w/o bones	0.000070	1.000	1.000
356	P	Turkey-giblets (liver)	0.000160	1.000	1.000
358	P	Turkey- lean/fat free w/o bones	0.000022	1.000	1.000
449	P	Turkey-other organ meats	0.000160	1.000	1.000
429	M	Veal-dried	0.000008	1.920	1.000
424	M	Veal-fat w/o bones	0.000120	1.000	1.000
426	M	Veal-kidney	0.000010	1.000	1.000
425	M	Veal-lean (fat free) w/o bones	0.000008	1.000	1.000
427	M	Veal-liver	0.000010	1.000	1.000
430	M	Veal-meat byproducts	0.000010	1.000	1.000
428	M	Veal-other organ meats	0.000010	1.000	1.000
431	14	Walnut oil	0.025000	1.000	0.250
48	14	Walnuts	0.025000	1.000	0.250

Attachment 4: Acute Analysis.

U.S. Environmental Protection Agency Ver. 7.075
DEEM ACUTE analysis for PROPARGITE (1989-92 data)
Residue file: revacute1.RS7 Adjustment factor #2 used.
Analysis Date: 05-24-2000/10:18:40 Residue file dated: 05-24-2000/09:50:30/8
NOEL (Acute) = 8.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
MC iterations = 1000 MC list in residue file MC seed = 10281
Run Comment: "Propargite acute dietary analysis using PDP and Field trial data
."
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Summary calculations (per capita):

	95th Percentile		99th Percentile		99.9th Percentile			
	Exposure % aRfD	MOE	Exposure % aRfD	MOE	Exposure % aRfD	MOE		
U.S. Population:								
0.000081	0.10	98482	0.000194	0.24	41246	0.001193	1.49	6703
All infants:								
0.000106	0.13	75535	0.000271	0.34	29539	0.000970	1.21	8244
Nursing infants (<1 yr old):								
0.000045	0.06	177290	0.000125	0.16	63872	0.001516	1.89	5278
Non-nursing infants (<1 yr old):								
0.000141	0.18	56825	0.000293	0.37	27283	0.000779	0.97	10275
Children 1-6 yrs:								
0.000166	0.21	48072	0.000439	0.55	18211	0.002372	2.96	3372
Children 7-12 yrs:								
0.000102	0.13	78708	0.000235	0.29	34000	0.000808	1.01	9899
Females 13+ (preg/not nursing):								
0.000057	0.07	141429	0.000230	0.29	34810	0.003001	3.75	2665
Females 13+ (nursing):								
0.000071	0.09	112478	0.000265	0.33	30151	0.002014	2.52	3972
Females 13-19 (not preg or nursing):								
0.000058	0.07	136971	0.000143	0.18	56031	0.000422	0.53	18946
Females 20+ (not preg or nursing):								
0.000047	0.06	168879	0.000143	0.18	56028	0.001448	1.81	5523
Females 13-50 yrs:								
0.000050	0.06	159052	0.000150	0.19	53178	0.001384	1.73	5778
Males 13-19 yrs:								
0.000067	0.08	118652	0.000153	0.19	52300	0.000436	0.55	18334
Males 20+ yrs:								
0.000054	0.07	148984	0.000122	0.15	65583	0.000847	1.06	9440
Seniors 55+:								
0.000050	0.06	160758	0.000135	0.17	59432	0.001227	1.53	6520

Attachment 5: Chronic Analysis.

U.S. Environmental Protection Agency Ver. 7.075
DEEM Chronic analysis for PROPARGITE (1989-92 data)
Residue file name: C:\deem\097601\revchronic.RS7 Adjustment factor #2 used.
Analysis Date 05-22-2000/12:02:01 Residue file dated: 05-22-2000/12:00:03/8
Reference dose (RfD, Chronic) = .04 mg/kg bw/day
COMMENT 1: Revised Propargite chronic dietary analysis using PDP and Field trial data.

Total exposure by population subgroup

Total Exposure

Population Subgroup	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000006	0.0%
U.S. Population (spring season)	0.000005	0.0%
U.S. Population (summer season)	0.000008	0.0%
U.S. Population (autumn season)	0.000005	0.0%
U.S. Population (winter season)	0.000005	0.0%
Northeast region	0.000006	0.0%
Midwest region	0.000006	0.0%
Southern region	0.000005	0.0%
Western region	0.000007	0.0%
Hispanics	0.000006	0.0%
Non-hispanic whites	0.000006	0.0%
Non-hispanic blacks	0.000005	0.0%
Non-hisp/non-white/non-black	0.000007	0.0%
All infants (< 1 year)	0.000006	0.0%
Nursing infants	0.000009	0.0%
Non-nursing infants	0.000005	0.0%
Children 1-6 yrs	0.000015	0.0%
Children 7-12 yrs	0.000007	0.0%
Females 13-19 (not preg or nursing)	0.000004	0.0%
Females 20+ (not preg or nursing)	0.000005	0.0%
Females 13-50 yrs	0.000005	0.0%
Females 13+ (preg/not nursing)	0.000008	0.0%
Females 13+ (nursing)	0.000008	0.0%
Males 13-19 yrs	0.000004	0.0%
Males 20+ yrs	0.000005	0.0%
Seniors 55+	0.000005	0.0%
Pacific Region	0.000008	0.0%

Attachment 6: Cancer Analysis.

U.S. Environmental Protection Agency Ver. 7.075
DEEM Chronic analysis for PROPARGITE (1989-92 data)
Residue file name: C:\deem\097601\revcancer.RS7 Adjustment factor #2 used.
Analysis Date 05-22-2000/12:02:35 Residue file dated: 05-22-2000/12:00:35/8
Q* = 0.201
COMMENT 1: Revised Propargite cancer dietary analysis using PDP and Field trial data.

Total exposure by population subgroup

Total Exposure

Population Subgroup	mg/kg body wt/day	Lifetime risk (Q* = .201)
U.S. Population (total)	0.000006	1.19E-06

Attachment 7: Cancer Analysis (with zeroes inserted for milk commodities).

U.S. Environmental Protection Agency Ver. 7.075
DEEM Chronic analysis for PROPARGITE (1989-92 data)
Residue file name: C:\deem\097601\revcancerwomilk.RS7

Adjustment factor #2 used.

Analysis Date 05-22-2000/12:03:01 Residue file dated: 05-22-2000/12:01:10/8

$$Q^* = 0.201$$

COMMENT 1: Revised Propargite cancer dietary analysis using PDP and Field trial data.

Total exposure by population subgroup

Total Exposure

Population Subgroup	mg/kg body wt/day	Lifetime risk (Q* = .201)
U.S. Population (total)	0.000005	1.05E-06

Attachment 8: Cancer Critical Commodity Contribution Analysis.

U.S. Environmental Protection Agency Ver. 7.075
DEEM Chronic analysis for PROPARGITE (1989-92 data)
Residue file name: C:\deem\097601\revcancer.RS7 Adjustment factor #2 used.
Analysis Date 05-22-2000/12:02:38 Residue file dated: 05-22-2000/12:00:35/8
Q* = 0.201
COMMENT 1: Revised Propargite cancer dietary analysis using PDP and Field trial data.

Critical Commodity Contribution Analysis for U.S. Population (total)

Total Exposure = .0000059 mg/kg bw/day

Crop groups with total exposure contribution > 10%
Foods/Foodforms with exposure contribution > 5%

Crop group	Exposure analysis		
Food	mg/kg	% of Total	Lifetime Risk
Foodform	body wt/day	Exposure	(Q* = .201)

Crop Group = (O) Other			
Grapes	0.0000007	12.50%	1.49E-07
Grapes-raisins	0.0000006	10.50%	1.25E-07
Hops	0.0000003	5.43%	6.48E-08
-----	----- ----- -----		
Total for crop group	0.0000023	39.23%	4.69E-07

Crop Group = (D) Dairy Products			
Milk-based water	0.0000006	10.12%	1.21E-07
Total for crop group	0.0000007	12.05%	1.44E-07

Crop Group = (1) Root and Tuber Vegetables			
Potatoes/white-peeled	0.0000003	5.05%	6.03E-08
<hr/>			
Total for crop group	0.0000004	5.98%	7.14E-08

Crop Group = (1C) Tuberous and Corm Vegetables			
Potatoes/white-peeled	0.0000003	5.05%	6.03E-08
-----	-----	-----	-----
Total for crop group	0.0000004	5.98%	7.14E-08

Crop Group = (10) Citrus Fruits			
Oranges-juice-concentrate	0.0000004	7.38%	8.81E-08
Total for crop group	0.0000009	14.73%	1.76E-07

Crop Group = (12) Stone Fruits			
Nectarines	0.0000011	18.33%	2.19E-07
-----	-----	-----	-----
Total for crop group	0.0000011	18.33%	2.19E-07

Total for crop groups listed above: 0.0000054 90.32% 1.08E-06

Attachment 9: **Cancer Critical Commodity Contribution Analysis (with zeroes inserted for milk commodities).**

U.S. Environmental Protection Agency Ver. 7.075
DEEM Chronic analysis for PROPARGITE (1989-92 data)
Residue file name: C:\deem\097601\rcvcancerwomilk.RS7

Residue file name: C:\deem\097001\revcancelfwlink.R37
Adjustment factor #2 used

Analysis Date 05-22-2000/12:03:04 Residue file dated: 05-22-2000/12:01:10/8

Analysis Date 05-22-2000/12:03:04 Residue file dated: 05-22-2000
Q* = 0.201

COMMENT 1: Revised Preprint version lists one additional PDB and EID 14.

COMMENT

Critical Commodity Contribution Analysis for U.S. Population (total)

Total Exposure = .0000052 mg/kg bw/day

Crop groups with total exposure contribution > 10%
Foods/Foodforms with exposure contribution > 5%

Crop group	Exposure analysis		
Food	mg/kg	% of Total	Lifetime Risk
Foodform	body wt/day	Exposure (Q*= .201)	

Crop Group = (O) Other			
Grapes	0.0000007	14.22%	1.49E-07
Grapes-raisins	0.0000006	11.94%	1.25E-07
Hops	0.0000003	6.17%	6.48E-08
-----	-----	-----	-----
Total for crop group	0.0000023	44.60%	4.69E-07

Crop Group = (1) Root and Tuber Vegetables			
Potatoes/white-peeled	0.0000003	5.74%	6.03E-08
-----	-----	-----	-----
Total for crop group	0.0000004	6.80%	7.14E-08

Crop Group = (1C) Tuberous and Corm Vegetables			
Potatoes/white-peeled	0.0000003	5.74%	6.03E-08
Total for crop group	0.0000004	6.80%	7.14E-08

Crop Group = (10) Citrus Fruits			
Oranges-juice-concentrate	0.0000004	8.39%	8.81E-08
-----	----- ----- -----		
Total for crop group	0.0000009	16.75%	1.76E-07

Crop Group = (12) Stone Fruits			
Nectarines	0.0000011	20.85%	2.19E-07
-----	-----	-----	-----
Total for crop group			
	0.0000011	20.85%	2.19E-07

Total for crop groups listed above: 0.0000047 89.00% 9.35E-07